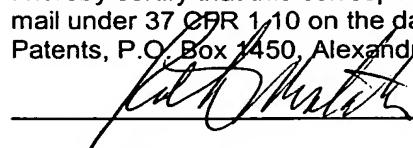


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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney's Docket No.: GK-EIS-1102/500593.20095

U.S. Application No.:

International Application No.: PCT/EP2004/008217

International Filing Date: JULY 23, 2004 23 JULY 2004

Priority Date Claimed: JULY 25, 2003 25 JULY 2003

Title of Invention: METHOD AND APPARATUS FOR THE DIGITIZATION OF AND FOR THE DATA COMPRESSION OF ANALOG SIGNAL

Applicant(s) for (DO/EO/US): Axel HAUPT, Volker SCHMITT, Johannes HUBER and Bernd MATSCHKAL

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Commissioner for Patents
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Alexandria, VA 22313-450

INFORMATION DISCLOSURE STATEMENT

SIR:

Applicant herewith submits together with the simultaneously filed National Phase application of PCT/EP2004/008217, a copy of the International Search Report (PCT/ISA/210) dated November 11, 2004, citing some of the following references:

	Document Number	Date	Name and/or Country	English Translation and/or Equivalent
AA	5,577,092	11/19/1996	Kublak, et al.	
AB	6,064,072	05/16/2000	Partlo, et al.	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AL N. S. Jayant, P. Noll, Digital Coding of Waveforms, Prentice-Hall, Englewood Cliffs, New Jersey, 1984

AM R. M. Gray, David L. Neuhoff, Quantization, IEEE Transactions on Information Theory, pp. 2325-2383, Oct. 1998

AN Manfred Herbert, Lattice Quantization of Speech Signals and Speech Model Signals. Selected Works on Information Systems, No. 79, editor: H.-W. Schüßler, Erlangen 1991

AO Volder, Jack, The CORDIC Trigonometric Technique, IRE Trans. Electronic Computing, Vol. EC-8, pp. 330-334, Sept. 1959

AP J. H. Conway and N. J. A. Sloane, Sphere Packings, Lattices, and Groups, Springer-Verlag, 3rd edition

10/565838

IAP9 Rec'd PCT/PTO 25 JAN 2005

AQ Robert F. H. Fischer, Precoding and Signal Shaping for Digital Transmission, pp. 258-281, John Wiley & Sons, Inc., New York, 2002, ISBN 0471 22410 3

AR T. Berger, Lossy Source Coding, *IEEE Transactions on Information Theory*, pp. 2693-2723, Oct. 1998

AS L. Pakula and S. Kay, Simple Proofs of the Minimum Phase Property of the Prediction Error Filter, *IEEE Transactions on ASSP*, Vol. 31, 1983

AT Erik Agrell, Thomas Eriksson, Alexander Vardy, Kenneth Zeger, Closest Point Search in Lattices, *IEEE Transactions on Information Theory*, pp. 2201-2214, Aug. 2002

AU "Zauberflöte" by Wolfgang Amadeus Mozart (Philips Classics Productions 1994 (DDD),

AV Mozart, "Der Vogelfänger bin ich ja" (Die Zauberflöte), Polygram Records #442569-2, track 3

AW XP-009038121 / Huber, et al "Spherical logarithmic quantization and its application for DPCM" ITG-Fachbericht, VDE-Verlag GmbH, JAN2004 pages 349-356

AX XP-002301076 / Adoul, et al. :Baseband speech coding at 2400 BPS using spherical vector quantization" Proceedings of the IEEE International Conference on Acoustics, Spweech and Signal Processing IEEE, NY, MARCH1984, pages 1.12.1 – 1.12.4

AY XP-002301077 / Wilson "Magnitude/phase quantization of independent Gaussian variates" *IEEE Transactions on Communications USA*, NOV1980, pages 1924-1929

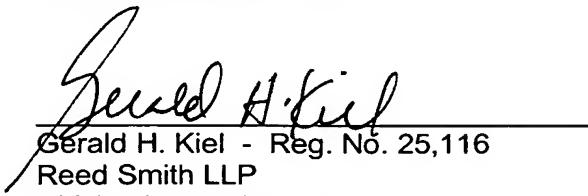
AZ XP-002301078 / Swaszek "Uniform spherical coordinate quantization of spherically symmetric sources" *IEEE Transactions on Communications USA*, JUNE1985, pages 518-521

Accompanying this Information Disclosure Statement and form PTO-1449 are copies of the documents except articles AL – AV. Articles AL – AV are mentioned in the substitute specification.

The USPTO waived the requirement under 37 C.F.R. §1.98(a)(2)(i) for submitting copies of US patents and US patent application publications in all U.S. applications filed after June 30, 2003. First pages of US documents only.

This submission is not an admission that the information disclosed in the documents is material to the patentability of the invention disclosed and/or claimed in the above-identified application.

Respectfully submitted,



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Enclosures:

Search Report (PCT/ISA/210);
PTO-1449
1 first page US Patent
1 foreign document
4 Articles

LIST OF PRIOR ART CITED BY APPLICANT
 (Filed on January 25, 2006)

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Docket No. **GK-EIS-1102/500593.20095**

Applicant(s): **Axel HAUPT, Volker SCHMITT, Johannes HUBER and Bernd MATSCHKAL**

Application No. (Int'l Appln No. PCT/EP2004/008217 23JUL04) Group:

Filed:

Examiner:

U.S. PATENT DOCUMENTS

Exam. Init		Document Number	Date	Name	Class	Sub-Class	Filing Date Appropriate
	AA	4,433,604	02/28/1984	Ott			

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	CLASS	Sub-Class	Translation YES NO
	AH	0 360 770	03/28/1990	European			n/a

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AL	N. S. Jayant, P. Noll, Digital Coding of Waveforms, Prentice-Hall, Englewood Cliffs, New Jersey, 1984
AM	R. M. Gray, David L. Neuhoff, Quantization, <i>IEEE Transactions on Information Theory</i> , pp. 2325-2383, Oct. 1998
AN	Manfred Herbert, Lattice Quantization of Speech Signals and Speech Model Signals. Selected Works on Information Systems, No. 79, editor: H.-W. Schüßler, Erlangen 1991
AO	Volder, Jack, The CORDIC Trigonometric Technique, <i>IRE Trans. Electronic Computing</i> , Vol. EC-8, pp. 330-334, Sept. 1959
AP	J. H. Conway and N. J. A. Sloane, Sphere Packings, Lattices, and Groups, Springer-Verlag, 3rd edition
AQ	Robert F. H. Fischer, Precoding and Signal Shaping for Digital Transmission, pp. 258-281, John Wiley & Sons, Inc., New York, 2002, ISBN 0471 22410 3
AR	T. Berger, Lossy Source Coding, <i>IEEE Transactions on Information Theory</i> , pp. 2693-2723, Oct. 1998
AS	L. Pakula and S. Kay, Simple Proofs of the Minimum Phase Property of the Prediction Error Filter, <i>IEEE Transactions on ASSP</i> , Vol. 31, 1983
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AV	Mozart, "Der Vogelfänger bin ich ja" (Die Zauberflöte), Polygram Records #442569-2, track 3
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AX	XP-002301076 / Adoul, et al. :Baseband speech coding at 2400 BPS using spherical vector quantization" Proceedings of the IEEE International Conference on Acoustics, Spweech and Signal Processing IEEE, NY, MARCH1984, pages 1.12.1 – 1.12.4
AY	XP-002301077 / Wilson "Magnitude/phase quantization of independent Gaussian variates" <i>IEEE Transactions on Communications USA</i> , NOV1980, pages 1924-1929
AZ	XP-002301078 / Swaszek "Uniform spherical coordinate quantization of spherically symmetric sources" <i>IEEE Transactions on Communications USA</i> , JUNE1985, pages 518-521

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.